

Title (en)

IMPROVED HELIANTHUS ANNUUS WHEREIN PALMITIC ACID AND OLEIC ACID LEVELS ARE ALTERED

Title (de)

VERBESSERTES HELIANTHUS ANNUUS MIT VERÄNDERTEN PALMITINSÄURE UND ÖLSÄUREGEHALTEN

Title (fr)

HELIANTUS ANNUUS AMELIORE AYANT DES TENEURS MODIFIEES EN ACIDE PALMITIQUE ET EN ACIDE OLEIQUE

Publication

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Application

EP 96921370 A 19960605

Priority

- US 9609486 W 19960605
- US 47597495 A 19950607

Abstract (en)

[origin: US5872271A] Sunflower plants, seeds capable of forming the same, and a novel endogenous vegetable oil derived from such sunflower seeds are provided. The plants have the ability to yield an endogenous vegetable oil wherein the levels of palmitic acid and oleic acid are provided in an atypical combination via genetic control. The concentration of palmitic acid in the endogenous oil constitutes at least 20 (e.g., approximately 20 to 45) percent by weight of the total fatty acid content, and the concentration of oleic acid in the oil constitutes at least 45 (e.g., approximately 45 to 65) percent by weight of the total fatty acid content in the absence of hydrogenation or other chemical or physical modification. It was found that the plants of the present invention can be formed through the combination (as described) of genetic determinants that were found to be present in the Pervenets sunflower and the H-55-9-2-1 or H-55-9-2-2 sunflower. The novel endogenous oil of the present invention is particularly useful, inter alia, in the production of margarine, or a cocoa butter equivalent.

IPC 1-7

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IPC 8 full level

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Citation (search report)

- [PX] WO 9520313 A1 19950803 - CONSEJO SUPERIOR INVESTIGACION [ES], et al
- [DA] OSORIO J ET AL: "MUTANT SUNFLOWERS WITH HIGH CONCENTRATION OF SATURATED FATTY ACIDS IN THE OIL", CROP SCIENCE, vol. 35, no. 1, 1 January 1995 (1995-01-01), pages 739 - 742, XP000677842
- See references of WO 9639804A1

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US 5872271 A 19990216; AR 001289 A1 19971008; AU 6261096 A 19961230; AU 705124 B2 19990513; CA 2221639 A1 19961219; CA 2221639 C 20020813; EP 0836376 A1 19980422; EP 0836376 A4 19990630; HU P9900889 A2 19990728; HU P9900889 A3 20000828; JP H11509405 A 19990824; MX 9709621 A 19980731; SK 166897 A3 19980506; US 5710366 A 19980120; WO 9639804 A1 19961219

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US 93335797 A 19970918; AR 33686396 A 19960605; AU 6261096 A 19960605; CA 2221639 A 19960605; EP 96921370 A 19960605; HU P9900889 A 19960605; JP 50179397 A 19960605; MX 9709621 A 19971205; SK 166897 A 19960605; US 47597495 A 19950607; US 9609486 W 19960605